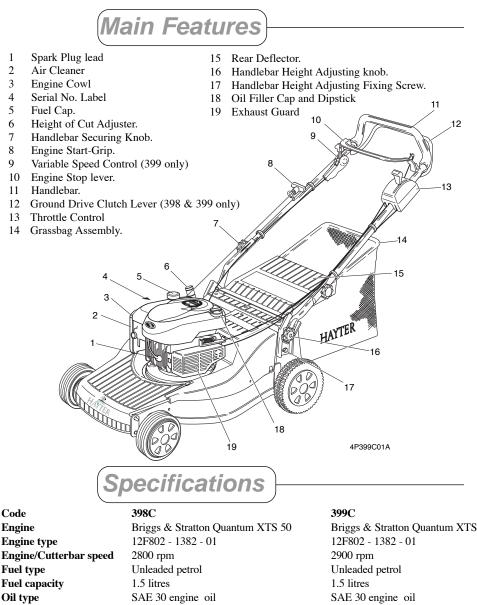
Ranger

CODES 398C 399C (Autodrive) (Autodrive) 4 Speed

OWNER'S HANDBOOK

(English Version) FROM SERIAL NO: 398C001001, 399C001001 ISSUE 21.02.05

HANDBOOK: 398016 (REV .0.)



Oil sump capacity Cutting width Cutting height **Overall dimensions** Dry Weight

1.2

0.6 litres 480mm 20 - 70mm 1.465 x 525 x 1.020mm 34.5 Kg

Briggs & Stratton Quantum XTS 50 0.6 litres 530mm 25 - 75mm 1.510 x 585 x 1.035mm 36 Kg



1ST Year (12 months)

We certify that this service has been carried out by an Authorised Hayter Service Dealer





2nd Year (24 months)

We certify that this service has been carried out by an Authorised Hayter Service Dealer

Date:



1ST Year (12 months)

Owner's Name: _____

Serial Number: _____

Date: _____



Note for dealer: Please retain this voucher for your records.



2nd Year (24 months)

Owner's Name: _____

Serial Number: _____

Date: _____



Note for dealer: Please retain this voucher for your records.

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Thank you for purchasing a **Hayter** mower. The following pages are designed to help you gain safe and efficient service from your mower.

IMPORTANT: This 'Owners Handbook' should be regarded as part of the mower as it gives essential information regarding mower safety, operation, maintenance and specifications. Read and understand this handbook prior to operating your mower for the first time. Make sure you are familiar with all the controls and points of regular maintenance. If you have any doubts, consult your local **Hayter** authorised dealer who will be pleased to give you assistance.

IMPORTANT: This mower is designed solely for use in a domestic grass cutting environment. Use in any other way is considered as contrary to the intended use. Compliance with and strict adherence to the conditions of operation, service and repair as specified in this handbook also constitute essential elements of the intended use.

This mower should be operated, serviced and repaired only by persons who are familiar with its particular characteristics and who are acquainted with the relevant safety procedures.

The safety precautions listed in this handbook and all other generally recognised regulations on safety must be observed at all times.

Any arbitrary modifications carried out to this machine may relieve Hayter Limited of liability for any resulting damage or injury.

Hayter mowers are robustly constructed and designed for efficient economical performance under normal mowing conditions. Correct operation and maintenance will ensure a long and satisfactory service life. Prior to despatch from our factory every effort is made to ensure that your mower is delivered in perfect condition.

Throughout this handbook all references to **left** and **right** are as viewed from behind the handlebar, in the direction of forward travel.

This handbook is based on information available at the time of publication.

HAYTER LIMITED reserve the right to amend product specifications without prior notification.

LIMITED WARRANTY

Hayter Limited warrants to the original user/purchaser that this unit shall be free from defects in material and workmanship under normal use and service for a period of **three years** from the date of purchase. The manufacturer of major proprietry components i.e. engines, gearbox / transaxle (where applicable) furnish their own warranty and services are provided through their authorised network. To qualify for the full benefit of the warranty, the warranty registration card **must** be returned within 14 days of purchase. Subject to the conditions and exclusions noted in this limited warranty, we shall at our option, repair or replace any warranted part during the applicable period. If you are in doubt or experience any difficulty, please consult a Hayter Authorised Service Dealer for clarification.

To qualify for the extended warranty (second and third year) of the **three year limited warranty** the machine **must** have annual services carried out by an Authorised Hayter Service Dealer. These chargeable services should be carried out within 12 and 24 months of the date of purchase.

Excluded from the extended warranty period are those items which are subject to normal wear and tear e.g. tyres, wheels, cutterblades, belts, cables, grassbags, sweeper/brushes, batteries and other consumable wearing parts.

All consumer machines which are fitted with a **genuine** Hayter friction disc as original equipment before use, are covered by a **Lifetime Warranty** against the engine crankshaft bending. **Note:** friction washers, blade brake clutch (B.B.C) units and other such devices are not applicable. Only machines fitted with a **genuine** Hayter friction disc, which are used in accordance with the recommended operating and maintenance procedures, are covered.

This warranty does not apply to any unit that has been tampered with, altered, misused, abused or used for hire, and will become invalid if non genuine Hayter parts are fitted. This warranty does not cover minor mechanical adjustments unless they are due to defective material or workmanship. Consult the Owner's Handbook or a Hayter Authorised Service Dealer for assistance when making these adjustments.

A warranty period of 90 days applies to machines used for commercial purposes.

To make a warranty claim, return the unit to a Hayter authorised dealer along with proof of purchase stating the machine serial number and date of purchase. The service receipt(s) or this Owners Handbook with the 1st/2nd year service boxes fully completed, must be produced as proof of entitlement to the extended warranty period. Subject to the conditions and exclusions in this limited warranty, the authorised dealer will, at our option, repair or replace any warranted part within the duration of the warranty period.

This limited warranty gives you specific legal rights and is in addition to any statutory rights to which you may be entitled and your statutory rights are not affected by this warranty. If you need additional information concerning this written warranty, or assistance in obtaining services, please write to : **HAYTER LIMITED**, Service Department, Spellbrook, Bishop's Stortford, **Hertfordshire CM23 4BU**

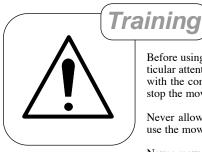
UK ONLY: Details of your local **Hayter** authorised dealer are contained in Yellow Pages and the Hayter website www.hayter.co.uk or contact: - Freephone 0800 616298.

Safety Alert Symbol



This safety alert symbol indicates important safety messages. When you see this symbol be alert to the possibility of injury. Carefully read the following and inform others.

Your mower is perfectly safe if used correctly. Failure to observe the following precautions may result in serious injury.



Before using the mower read the owners handbook carefully. Pay particular attention to the safety precautions. Ensure that you are familiar with the controls and the proper use of the equipment. Learn how to stop the mower quickly in an emergency.

Never allow children or people unfamiliar with these instructions to use the mower.

Never mow while people, especially children, or pets are nearby.

Keep in mind that the user is responsible for accidents or hazards occurring to other people or their property.



While mowing, always wear substantial footwear and long trousers. Do not operate the equipment when barefoot or wearing sandals.

Thoroughly inspect the area where the mower is to be used and remove all objects which may be thrown by the machine.

WARNING: Petrol is highly flammable.

- Store fuel in containers specifically designed for this purpose.
- Add fuel before starting the engine. Never remove the cap from the fuel tank or add petrol while the engine is running or when the engine is hot. Allow the engine to cool for at least two minutes before refuelling.
- Do not attempt to start the engine if petrol is spilled or a smell of petrol is present. Move the mower away from the area of spillage and avoid creating any source of ignition until petrol vapours have dissipated.

Preparation

- Always use fresh fuel. Stale fuel can block the carburettor and cause leakage.
- Replace fuel tank and oil tank caps securely.

A damaged cutterblade or loose fixing bolt are major hazards. Before use, always visually inspect the cutting mechanism to ensure that it is in good condition. A damaged cutterblade must be replaced immediately with a genuine Hayter replacement part

Do not operate the engine in a confined space where exhaust fumes (carbon monoxide) can collect. Refuel outdoors only and do not smoke while refuelling.

Always pull the starter cord slowly until resistance is felt. Then pull the cord rapidly to avoid kickback and prevent hand or arm injury.

Mow only in daylight or good artificial light.

Avoid using the mower on wet grass, where feasible.

Always be sure of your footing on slopes.

Walk, never run.

Mow across the face of slopes, never up and down.

Exercise extreme caution when changing direction on slopes.

Do not mow excessively steep slopes of more than 20 degrees.

Use extreme caution when reversing or pulling the mower towards you.

Stop the engine before moving the mower across areas other than grass.

Never operate the mower unless the guards are securely in position and in good condition.

Do not change the engine governor settings or overspeed the engine.

Disengage the rear roller drive clutch before starting the engine.

Start the engine carefully, with feet well away from the cutterblade.



Operation e exhaust fumes nd do not smoke s felt. Then pull or arm injury.

Operation



Do not tilt the mower when starting the engine.

Do not put hands or feet near or under rotating parts.

Never pick up or carry the mower while the engine is running.

Never lift the rear deflector while the engine is running.

Never touch the exhaust/exhaust guard or cooling fins when the engine is hot.

Stop the engine and disconnect the spark plug lead:

- Before clearing blockages or unclogging the discharge chute.
- Before cleaning/checking or working on the mower.
- After striking a foreign object. Inspect the mower for damage and ensure necessary repairs are made before re-starting.
- If the mower starts to vibrate abnormally (check immediately).

Stop the engine:

- Whenever you leave the mower.
- Before refuelling.
- Reduce throttle control setting during engine shutdown.



Maintenance & Storage

Keep all nuts, bolts and screws tight to ensure that the equipment is in safe operating condition.

Frequently check fuel lines and fittings for cracks or leaks and replace if necessary.

Never check for a spark when the spark plug is removed. (Use approved tester)

Inspect the exhaust periodically and replace if worn or leaking.

Never crank the engine with the spark plug removed.

Never start the engine with the air-cleaner or air-cleaner cover removed.

Never store the mower with petrol in the tank within an enclosed area where fumes may reach an open flame or spark.

Maintenance & Storage

Allow the engine to cool before storing in any enclosure. To reduce the fire hazard, keep the engine and the surrounding deck area free of grass, leaves, or excessive grease.

Check the rear deflector and grassbag frequently for wear or deterioration. Replace worn or damaged parts for safety.

If the fuel tank has to be drained, this should be done outdoors and when the engine is cool.

Wear strong work gloves when removing and reassembling the cutterblade.

Always replace worn or faulty parts with genuine Hayter parts.



Safety Alert - Be aware to the possibility of injury.



Carefully read the Owners Handbook before using the machine.



Danger of severing toes or fingers in cutting mechanism.



Stop engine and remove spark plug lead before working on the mower.



Danger of being hit by thrown objects.



Keep bystanders at a safe distance from the mower.

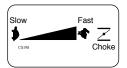




Height of Cut Adjustment (Symbol)



Throttle Control (Symbols)







Engine Stop (Symbol)

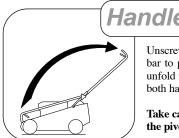


Delivery Checklist

Remove the mower from the packaging and check that the following items have been supplied correctly. If any items are missing contact, your local Hayter dealer.

- 1. Engine Handbook. 2. Grassbag.
- 3. Owners Handbook

To prevent accidents cut off the long ribbon attached to the grassbag and discard.



Handlebar

Unscrew the handlebar securing knobs sufficiently to allow the handlebar to pivot. Hold the engine stop lever in towards the handlebar and unfold the handlebar to the operating position, before releasing. Tighten both handlebar knobs to secure in position.

Take care to ensure that the control cables do not become snagged at the pivot point.



Adjust Height of Handlebars

Using a suitable spanner or socket. Loosen the 2 fixings at the base of the handlebars. Unscrew the 2 lower knobs sufficiently to allow handlebars to pivot. Set the required position and re-tighten the 2 lower knobs, check position and re-tighten the fixing screws at the base of the handlebar.



Grassbag Attachment

Raise the rear deflector, lower the grassbag through the handlebar and hook in position. Lower the deflector to rest on the grassbag

Prevent Engine Damage

To prevent engine damage the engine is shipped without oil or petrol. The engine must be filled with the correct grade of oil and petrol before starting the engine.



–(Oil Type

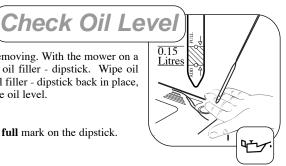
Always use high quality detergent oil classified SAE 30 oil. Never use additives with recommended oil.

To prolong the life of your engine it is important that the oil is changed after the first 5 hours of use - refer to 'Maintenance Schedule'.



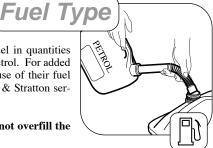
Clean around the oil filler cap before removing. With the mower on a level surface, unscrew and remove the oil filler - dipstick. Wipe oil from it with a clean cloth. Screw the oil filler - dipstick back in place, then unscrew and remove it to check the oil level.

The oil level is correct when it is at the **full** mark on the dipstick. **DO NOT OVERFILL.**

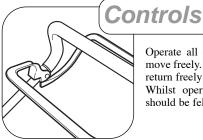


Always use clean, fresh unleaded petrol. Purchase fuel in quantities that can be used within 30 days. Never mix oil with petrol. For added engine protection Briggs & Stratton recommend the use of their fuel additive which is available from an authorised Briggs & Stratton service dealer.

Fill to base of neck to allow for fuel expansion. Do not overfill the fuel tank.





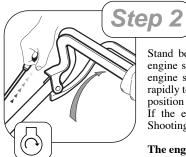


Operate all control levers several times and ensure that the cables move freely. Check that the engine stop and ground drive clutch levers return freely to their rest position when released.

Whilst operating the engine throttle mechanism slight resistance should be felt when moving the lever to the '**choke**' position.

Starting - Step 1

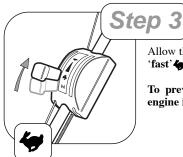
Move the throttle control lever to the '**choke**' position before starting a cold engine. Move the throttle control lever to the '**fast'** position before starting a warm engine.



Stand behind the mower and hold the handlebar together with the engine stop lever with your left hand. With your right hand hold the engine start - grip and pull slowly until resistance is felt, then pull rapidly to crank the engine. carefully return the start grip to the storage position when the engine starts.

If the engine does not start after 5 attempts - refer to "Trouble Shooting".

The engine stop lever must be held firmly against the handlebar to start and keep the engine running. If the engine stop lever is released the engine will stop.



Allow the engine to warm up and move the throttle lever to the **'fast'** position after starting a cold engine.

To prevent damage never pull the engine start grip when the engine is running.

1.14

Forward Travel

(Autodrive Only)

Hold the handlebar and operate the ground drive clutch lever to power the mower in a forward direction.

When the ground drive clutch lever is disengaged the mower may be pushed. This feature is useful when mowing in confined areas.

If the engine stop lever is released the engine will stop.

(Autodrive 4 Speed Only) Travel Speed can be altered by selecting one of the four positions.

ONLY operate the speed control when the engine is running to avoid damage to the mechanism.

To make a wide turn steer the mower with the handlebar in the direction required.

To make a tight turn release the ground drive clutch lever, apply downward pressure on the handlebar to raise the front wheels just above ground level and steer in the required direction.

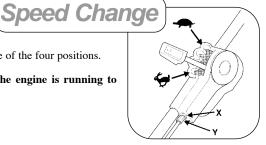
To prevent accidents do not raise the front of the mower excessively when making a turn. Never raise the rear of the mower when the engine is running.

Release the ground drive clutch lever, reduce the throttle setting and release the engine stop lever.

Emergency stop: Release both ground drive clutch lever and engine stop lever together.

If the engine fails to stop, move the throttle lever to the 'slow' position and disconnect the spark plug lead.

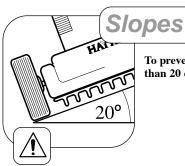








Stopping



To prevent engine damage do not use the mower on slopes greater than 20 degrees.

Height of Cut

Grip the lever and pull sid notch, then push forwards height of cut. Finally relea ensure it locks firmly into or Always select a height of cu

Grip the lever and pull sideways to disengage it from the locking notch, then push forwards to lower or pull backwards to raise the height of cut. Finally release the lever at the required position and ensure it locks firmly into one of the nine notch settings.

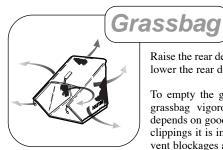
Always select a height of cut to suit operating conditions. Aim to prevent engine overloading and blockages by avoiding low cuts in long grass conditions. Be prepared to make two cuts when the grass is long.



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To prevent accidents thoroughly inspect the area and remove all objects which when contacted by the mower cutterblade could become dangerous projectiles. Inspect the area for hidden obstructions which when contacted by the cutterblade could risk health and safety. Remember the location of these obstructions and ensure that you mow around them.

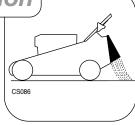


Raise the rear deflector and lift the grassbag through the handlebar and lower the rear deflector to rest against the rear of the mower.

To empty the grassbag, pour out the grass clippings and shake the grassbag vigorously to clean the airways. Good grass collection depends on good air flow through the grassbag. When collecting grass clippings it is important that the grassbag is emptied regularly to prevent blockages and engine overloading.



Remove the grassbag and operate the mower with the rear deflector in the closed position.



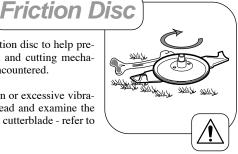
Heavy Growth

Areas of heavy growth should be mown without collecting the clippings. If collection is required, first mow the area without the grassbag at the maximum height of cut setting. Allow the grass clippings to dry out and then mow the area at the maximum height of cut setting with the grassbag fitted. Reduce the height of cut and mow the area again as necessary until the required finish is obtained.

To prevent grass damage do not remove more than one third of grass height in one cut.

The cutterblade is driven by the engine via a friction disc to help prevent damage occurring to the engine crankshaft and cutting mechanism when a hidden obstruction or overload is encountered.

Always stop the engine when a hidden obstruction or excessive vibration is encountered. Disconnect the spark plug lead and examine the cutting mechanism. ALWAYS replace a damaged cutterblade - refer to "Maintenance".





When moving the mower across non-grassed areas, stop the engine and set the mower to the maximum height of cut to protect the cutting mechanism.





To be used as a guide only.

January

There is very little work to do this month apart from brushing away leaves. Keep off the grass if frozen or waterlogged.



Rake the grass thoroughly. Spike the lawn to aerate and stimulate soil organisms and root growth and apply lawn sand if necessary.



The yearly lawn work programme really starts this month. As soon as the ground conditions are suitable, the first cut can be made. The first cut should merely "top" the grass as close cutting at this stage could result in severe yellowing or browning. Two cuts are generally sufficient this month.



Mow often enough to stop grass growing away. Dig out patches of coarse grass or resistant weed. Re-seed bare patches.



Keep mowing increasing the frequency as required. Treat with selective weed killers or combined weed/feed preparations if you did not feed the lawn in April.



Summer mowing should now be under way. It should be necessary to mow the lawn twice a week. Raking before mowing is important this month as the combined action keeps runners of clover under control. Water the grass if necessary, and remember to soak thoroughly.



Treat the grass with the second application of fertiliser or weed killer/fertiliser. Water when necessary and rake occasionally. As a general rule the grass clippings should be removed each time you mow. If weather conditions are dry and hot and the grass is weed free, leave the clippings on the lawn to help maintain ground moisture.



October

November

December

Lawn Stripes

Keep mowing regularly and watering as necessary. Fill any cracks caused by drought with a mixture of sharp sand and soil. In dry weather conditions leave the grass longer to help retain ground moisture.



Raise the height of cut to allow the grass to thicken and protect the roots from the winter frost and snow.

Rake out the thatch from the turf and spike the lawn to assist in drainage. Brush in peat and sharp sand.

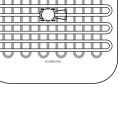
Use a stiff broom to disperse worm casts before mowing. Keep turf free from leaves.

Apart from brushing away leaves, December is a slack end of a busy year. Keep off the lawn if it is very wet or frozen.

The way to achieve a neat striped effect is for the lawn being cut in parallel stripes, alternate stripes being mown in opposite directions. A much more important routine is to cut at right angles to the line of the previous mowing. If the work has been carried in a north-south line, then the next cutting should be in an east-west direction. The cross-

To prevent grass damage do not remove more than one third of the grass height in one cut.

cutting keeps down the coarse weed grasses.







To prevent accidents stop the engine disconnect the spark plug lead before attempting to carry out maintenance procedures on the mower.

Follow the hourly or calendar intervals, whichever occurs first. More frequent service will be required if working for prolonged periods under dusty, dry conditions, or when airborne debris is present or after extensive operation cutting tall, dry grass.



After the very first five hours change the engine oil



- Check the oil level
- Remove grass debris from around the engine, exhaust/exhaust guard and air ways in the top cowl and underside of the deck housing.
- Remove grass debris from the grassbag and check for signs of damage.
- Check the condition of guards and safety devices and cutterblades
- Check condition of cutterblade.



- Change the engine oil if continuously operating under heavy load or high ambient temperature.
- Service the air cleaner.
- Lubricate wheels, pivot points and linkages and grease the inner control cables at point of entry and exit from their outer casing.
- Check the clutch cable adjustment.
- Sharpen the cutterblade.

50Hrs or Every Season

Change the engine oil.

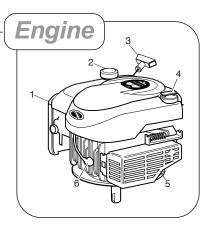


- Clean the engine cooling system. Clean more often under dusty conditions or when airborne debris is present or after prolonged operation whilst cutting tall, dry grass.
- Replace the spark plug.

To prevent accidents stop the engine and disconnect the spark plug lead before attempting to carry out maintenance procedures on the mower.



- 1. Air Filter
- 2. Fuel Cap
- 3. Start Grip
- 4. Oil Cap/ Dipstick
- 5. Exhaust Guard
- 6. Spark Plug / Lead



Throttle Cable Adjustment

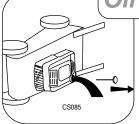
Loosen the outer cable clamp screw (1) and move the governor control lever (2) to the left as far as possible. Insert a large, flat blade screw driver (3) into the slot in the engine control bracket (4) at the angle shown. Push the governor control lever to the right until it just touches the screw driver blade. Move the throttle control lever to the 'fast' position (not the 'choke' position) and retighten the outer cable clamp screw. Replace the engine cowl.



Carburettor Adjustments

Should only be made by an authorised Briggs & Stratton dealer. Under no circumstances should the engine be adjusted to run at a speed in excess of that shown on the Declaration of Conformity.

Oil Service



Check the oil level daily before starting the engine and ensure that the correct oil level is maintained. Refer to-'Before Starting the Mower' for oil checking and filling instructions.

Change the engine oil after the first 5 hours of operation and thereafter according to the 'Maintenance Schedule':-

- 1. Drain fuel by running the engine until the fuel tank is empty.
- 2. Remove the spark plug lead.
- 3. Allow the engine to cool.
- 4. Drain the oil while the engine is warm.(Not hot)
- 5. Tip the mower over on to its left hand side thus ensuring that the air cleaner is kept uppermost **to prevent engine damage.**
- 6. Remove the oil filler dipstick and drain the oil into a suitable container.
- Refill with new oil of the recommended SAE viscosity grade. (Refer to-'Before Starting the Mower')



Air Cleaner Service

To service the air cleaner, loosen screw (1) and remove cover (2).

Remove cartridge (3) and clean by tapping gently on a flat surface. If very dirty, replace.

- Do not use petroleum solvents.
- Do not use pressurised air.
- Do not oil the cartridge.

After servicing, install the cartridge into the cover. Insert the tabs on the bottom of the cover into the slots in the bottom of the base (4). Tilt the cover upwards and securely tighten the screw to the base.



Use only Briggs & Stratton spark tester (1) to check for a spark as shown in the diagram.

Replace the spark plug every 100 hours or every season, whichever occurs first. A spark plug wrench is available from any authorised Briggs & Stratton service dealer.

Check the spark plug gap with a feeler gauge and set at 0.76mm.





Keeping Engine Clean

Remove all grass and debris from the engine including the exhaust/exhaust guard, the air ways in the top cowl and the surrounding deck areas on a daily basis after use. Never spray the engine with water during cleaning. Water can contaminate the fuel. Always clean with a brush or compressed air.

Grass and debris may clog the engine's air cooling system especially after prolonged operation while cutting tall, dry grass. The internal cooling fins and surfaces may require cleaning to prevent overheating and engine damage. We recommended that this service be carried out by an authorised Briggs and Stratton dealer.



Grassbag

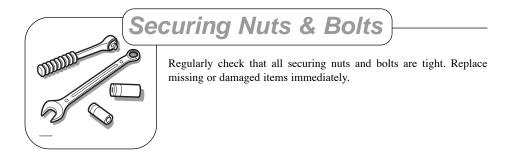
Remove grass debris from the grassbag immediately after use and check its condition for signs of damage.

To prevent accidents replace a damaged grassbag immediately.

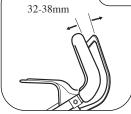
Deck Housing

Remove grass debris from the top and underside of the deck housing immediately after use.

To prevent accidents fertilisers and top dressings are particularly corrosive. Thoroughly clean the mower deck immediately after use on treated grass and store well away from corrosive materials.



Clutch Cable Adjustment



Auto Drive Models Only.

Check the clutch cable operation every 25 operating hours and adjust if necessary. The clutch cable is adjusted correctly when the belt drive just engages with the clutch lever positioned 32-38mm from the handlebar.



Unscrew the lock nuts (1) and screw the adjuster (2) in or out as necessary. Tighten the locknuts (1) when correctly adjusted.

Speed Change cable

If the speed difference between the settings on the speed change control are judged to be too little or do not exist at all it may be necessary to adjust the cable.

1. Run the mower in the *position for a few minutes.*

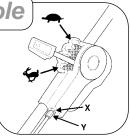
2. If there is any play in the cable by nipple Y the cable must be adjusted. Loosen the locking nut X and adjust the cable by screwing out the nipple Y until the play on the cable is taken up.

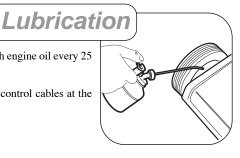
3. Tighten the locking nut X.

Note! Do not tension the cable more than necessary, it should just sit in the nipple Y without play. Too much cable tension will cause the drive belt to break or result in damage to other parts of the transmission. When adjusting after maintenance (e.g. fitting a new belt) always start with the nipple Y screwed in fully.

Lubricate the wheels, pivot points and linkages with engine oil every 25 operating hours.

Apply a good quality medium grease to the inner control cables at the point of entry and exit from their outer casing.





Cutterblade Removal



Drain the fuel by running the engine until the fuel tank is empty and the engine stops. **Remove the spark plug lead** and allow the engine to cool. Turn the mower on its **left hand side** and ensure that the air cleaner side of the engine is uppermost.

Firmly grip the end of the cutterblade with the gloved hand and remove the bolt (1), spring washer (2) and distance piece (3) securing the cutterblade with a 9/16" A/F spanner.

To prevent accidents never work on the cutterblade unless the spark plug lead has been removed. The cutterblade has sharp edges. ALWAYS wear strong gloves to protect your hands when working on the cutterblade. DO NOT rotate tools towards the cutting edges to avoid the risk of injury should the tool slip. ALWAYS use genuine Hayter replacement parts.

The condition of the cutterblade and its mounting arrangement should be checked regularly for signs of wear or damage. Ensure that the cutterblade is not bent or cracked.

A damaged cutterblade that is out of balance will vibrate excessively and may break. DO NOT use an unbalanced cutterblade.

Regularly check that the bolt securing the cutterblade is tightened to the specified torque of 54Nm.

Replace the cutterblade every 2 years of sooner if excessively worn or damaged.

To prevent injury it is wise to seek assistance when turning the mower on its side.



Assemble the cutterblade with the turned up edges facing towards the engine. Secure the cutterblade using the bolt (1), spring washer (2), and distance piece (3) and tighten to a torque of 54Nm

Cutterblade Sharpening

A slightly worn cutterblade may be re-sharpened. Both blade edges must be sharpened equally to ensure balance. Sharpen the cutterblade every 25 mowing hours or more frequently if conditions require. Remove the cutterblade from the mower and clean using a brush and water. Inspect the cutterblade for signs of damage.

Sharpen both cutting edges with a flat file to restore performance.

Ensure that the cutterblade is balanced. Use a screw driver with a round shaft to support the cutterblade through its centre hole. Hold the cutterblade horizontal and then release. A balanced cutterblade will remain horizontal.

If the cutterblade is not balanced the heavy end will rotate downwards. Sharpen the heavy end until the cutterblade is correctly balanced.







Storage

To store the handlebar unscrew the 2 small securing knobs sufficiently to allow it to be pivoted forwards to rest against the mower. Take care to ensure that the control cables do not become snagged at the pivot point and depress the engine stop lever to prevent it being damaged through contact with the engine spark plug.

Engines stored in excess of 30 days need to be protected with Briggs & Stratton fuel additive or drained of fuel to prevent gum from forming in the fuel system or on essential carburettor parts. To ensure your mower is maintained in good working order it is important that the following procedure is adopted. Refer to the Maintenance section as necessary.

Drain fuel from the engine by operating the engine until it stops.

Disconnect the spark plug lead.

Change the engine oil.

Remove the engine spark plug and pour 15ml of engine oil into the engine cylinder and replace the spark plug. Do not exceed the stated volume of oil as engine damage may occur on re-starting. **Do not replace the spark plug lead**. Slowly pull the engine start - grip once to crank the engine. This will distribute the oil and help prevent engine corrosion.

Clean grass and debris from the engine cylinder, cylinder head cooling fins, under top cowl, and around and behind exhaust/exhaust guard.

Clean all other areas of the mower and ensure that the grassbag is clean.

Lubricate the mower.

Treat metal parts with a water repellent anti-corrosion product.

Cover the mower with a protective sheet and store it in a dry, ventilated area.

POSSIBLE FAULT	REMEDY

PROBLEM

Engine will not turn over	Engine stop lever released	Operate engine stop lever		
	Incorrect oil level	Check oil level		
	Obstruction under deck	Remove obstruction		
Engine smokes	Excess oil level	Check oil level		
	Air cleaner cartridge oil soaked or plugged	Service air cleaner		
Engine runs then stops	Fuel starvation	Fill fuel tank		
	Fuel cap vent blocked	Clean fuel cap vent		
Engine will not start.	Engine under load.	Raise height of cut.		
	Fuel starvation.	Fill fuel tank.		
	Incorrect / contaminated fuel.	Drain fuel tank and fill with correct fuel.		
	Spark plug lead disconnected.	Connect spark plug lead.		
	Engine brake not released.	Operate engine stop lever.		
	Faulty spark plug.	Clean and adjust gap or replace.		
Engine runs rough.	Spark plug lead becoming disconnected in use.	Connect spark plug lead.		
	Faulty spark plug.	Clean and adjust gap or replace.		
	Air cleaner element blocked.	Replace air cleaner element.		
	Incorrect / contaminated fuel.	Drain fuel tank and fill with correct fuel.		

PROBLEM	POSSIBLE FAULT	REMEDY		
Engine vibrates excessively.	Mounting bolts loose.	Tighten bolts.		
	Cutterbar bolt loose.	Tighten bolt.		
	Cutterbar out of balance.	Balance cutterbar.		
Uneven cut.	Undulating ground contours.	Change direction of travel.		
	Cutterbar worn.	Sharpen the cutterbar.		
	Cutterbar out of balance.	Balance cutterbar.		
	Wheels damaged.	Inspect and replace as necessary.		
Discharge chute blocks.	Grass is wet.	Mow dry grass.		
	Cut height too low.	Increase cut height.		
	Grassbag full.	Empty grassbag.		
	No airflow through the grassbag.	Clean the grassbag.		
Mower is hard to push.	Height of cut too low.	Increase height of cut.		
	Wheels damaged.	Inspect and lubricate or replace as necessary.		
Mower will not self propel.	Clutch out of adjustment.	Adjust clutch lever.		
(Auto drive model only).	Drive belt damaged.	Replace drive belt.		
Poor grass collection.	No airflow through the grassbag.	Clean the grassbag.		
	Discharge chute blocked.	Remove blockage.		
	Wet grass.	Mow dry grass.		
	Grassbag full.	Empty grassbag.		

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 Design & Construction of Machinery and Safety Components, as amended and the regulations transposed i national law. Also Directive 89/336/EEC Electromagnetic Compatibility, as amended and the regulations transposed i national law. Also Directive 2000/14/EC Noise emission in the environment by equipment for use outdoors, and the regulations are supported and the regulations. 	r					
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Guaranteed sound power level: 96 dB(A) 100 dB(A) Standards Used: EN2921, EN836 and ENISO14982. Signed Date: 26.11.04 Declaration done and Technical Documentation kept at: HAYTER LIMITED, S.A. Maryniak Spellbrook, Bishop's Stortford,	 Also Directive 89/336/EEC Electromagnetic Compatibility, as amended and the regulations transposed into national law. Also Directive 2000/14/EC Noise emission in the environment by equipment for use outdoors, and the regulations transposed into national law procedure applied for the conformity assessment: ANNEX VI, procedure 1. Notified Body: Sound Research Laboratories Ltd. Holbrook House, Little Waldingfield, Sudbury, Suffolk, ENGLAND 					
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(Technical Director) Herts CM23 4BU ENGLAND						
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VIBRATION INFORMATION

The Lawnmower Vibration level at the operator contact position, measured in accordance with Euopean Standard EN836-Handlebars. **398C = 6.8 \text{ ms}^{-2}. CODE 399C = 7.3 \text{ ms}^{-2}.**



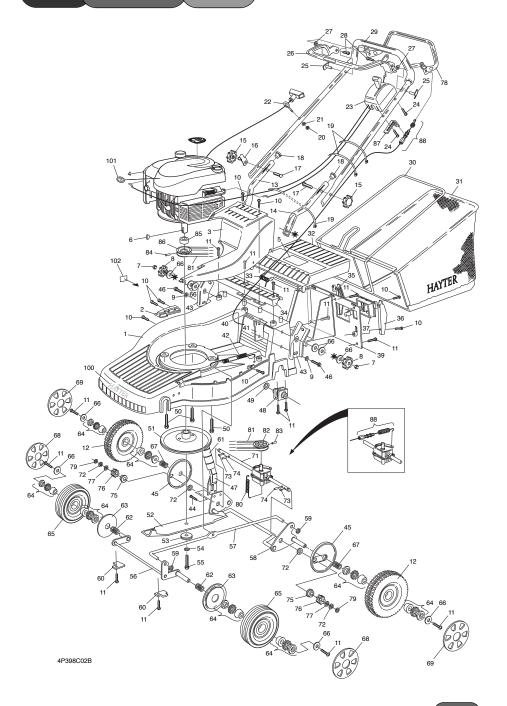
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ITEM NO.	DESCRIPTION	PART NO.	398C	399C	ITEM NOTE
1	Mainframe - 48	397039V	1	0	
	Mainframe - 53	399020V	0	1	
2	Height Adjust Quadrant	397028	1	1	
3	Cover - Black	397037	1	0	
	Cover - Black	399019	0	1	
4	Engine-B+S Quantum XTS 50	397047	1	1	
5	Decal - Caution	219189	1	1	
6	Key Woodruff	1662	1	1	
7	Nut-UNC 1/4" Plain	09197	2	2	
8	Knob	397046	2	2	
9	Washer	09475	2	2	
10	Screw - Plastite	09765	10	11	
11	Screw - Taptite	09596	16	18	
12	Wheel Assembly	397021	2	0	
	Wheel Assembly	399009	0	2	
13	Handlebar - Lower RH	397004W	1	1	
14	Handlebar - Lower LH	307003W	1	1	
15	Knob - M8 Handlebar	480088	2	2	
16	Guide Rope	305127	1	1	
17	Bolt - Handlebar	226024	2	2	
18	Plug - Tube	300160	2	2	
19	Cable Tie	3966	3	3	
20	Nut	09544	1	2	
21	Washer - Plain	09472	1	1	
22	Guide Rope	305093	1	1	
23	Throttle Control & OPC Assemble	397010	1	0	
	Throttle Control & OPC Assemble	480093	0	1	
24	Screw - Detite Posi Pan	09600	2	2	
25	Pin Pivot	340182	2	2	
26	Lever Engine	340179	1	1	
27	Washer - Nylon	09688	2	2	
28	Screw - PT Pan Flange	09687	2	2	
29	Upper Handlebar	340183W	1	0	
	Upper Handlebar	399026W	0	1	
30	Frame - Grassbag W/A	397005W	1	0	
	Frame - Grassbag W/A	399005W	0	1	
31	Fabric Grassbag	397006	1	0	
	Fabric Grassbag	399006	0	1	
32	Flap - Black	397024	1	1	
33	Spring	397025	1	1	
34	Flap Attachment - Black	397026	1	1	
35	Attachment - RH	397036	1	1	
36	Attachment - LH	397035	1	1	
37	Battery Holder	397034	1	1	
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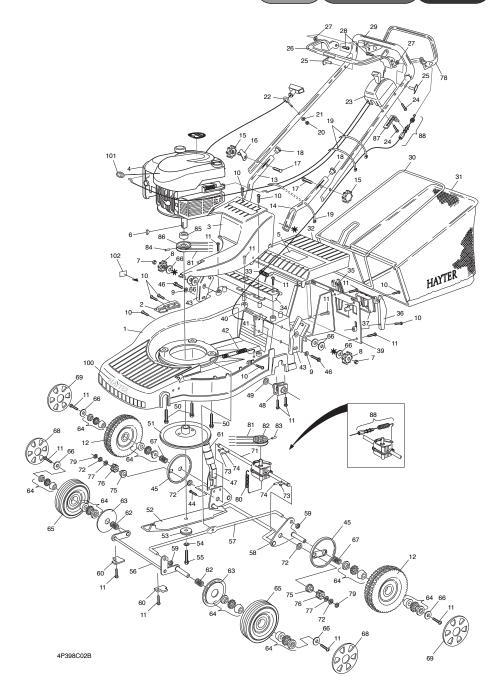
			(QTY.	
ITEM NO.	DESCRIPTION	PART NO.	398C	399C	ITEM NOTE
38	Grip Fix	09773	0	0	
39	Rear Attachment	397027	1	1	
40	Bolt - Coach	09766	2	2	
41	Attachment Plate	397018	2	2	
42	Spring	397033	1	1	
43	Handlebar Attachment	397017	2	2	
44	Screw -Taptite	09546	2	2	
45	Wheel Cover	397023	0	0	
	Cover Plate	398003	2	2	
46	Screw - M8 x 20	09368	2	2	
47	Height Adjustment Lever	397031	1	1	
48	Bushing	397016	2	2	
49	Seal Shaft	397041	2	2	
50	Screw - Taptite	09349	3	3	
51	Friction Disc W/A	397042W	1	1	
52	Cutterbar 19"	480149	1	0	
	Cutterbar 21"	330032	0	1	
53	Piece Cutterbar Distance	216008	1	0	
	Piece Cutterbar Distance	4014	0	1	
54	Washer - Spring	09273	1	1	
55	Screw	09116	1	1	
56	Front Axle	397029	1	1	
57	Height Adjustment Rod	397038	1	0	
	Height Adjustment Rod	399021	0	1	
58	Rear Axle	397030	1	1	
59	Grip Fix	09772	2	2	
60	Retainer	397013	2	2	
61	Lever Knob	397032	1	1	
62	Spring	397012	2	2	
63	Wheel Cover	397015	2	2	
64	Bearing Kit	397045	4	2	
65	Wheel Assembly - (Incl. item 64)	397014	2	2	
66	Washer	09263	10	12	
67	Spring	397019	2	2	
68	Hub Cap - Black	397020	2	2	
69	Hub Cap - Black	397022	2	0	
	Hub Cap - Black	399010	0	2	
70	Shaft	397040	0	0	
71	Transmission	398001	1	1	
72	Washer	02575	4	4	
73	Drive Key	398004	2	2	
74	Pin	398002	2	2	
75	Lock Washer	398005	2	2	
76	Gear Wheel	398007	2	2	

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ITEM NO.	DESCRIPTION	PART NO.	398C	QTY. 399C	ITEM NOT
77	Support Washer	398006	2	2	
78	Lever Clutch	306094	1	1	
79	Clip E	09767	2	2	
80	Tension Spring	398008	1	0	
	Bracket	399022	0	1	
81	V Belt	398011	1	0	
	V Belt	399024	0	1	
82	Belt Pulley	398010	1	0	
	Variator Assy	399018	0	1	
83	Pin Roll	09770	1	0	
	Pin Roll	09771	0	1	
84	Grubscrew	09769	1	1	
85	Bush	398012	1	0	
	Engine Spacer	399025W	0	1	
86	Engine Belt Pulley	398009	1	0	
	Engine Belt Pulley	399012	0	1	
87	Bracket Cable Clutch	306108	1	1	
88	Cable Clutch	397009	1	1	
89	Ball Bearing	399027	0	2	
90	Knob	399016	0	1	
91	Screw Plastite	09768	0	2	
92	Variator Control	399017	0	1	
93	Attachment	399013	0	1	
94	Screw Taptite	09764	0	1	
95	Spacer	399011	0	1	
96	Tension Roller	399015	0	1	
97	Tension Arm	399023	0	1	
98	Belt Pulley	399014	0	1	
99	Bolt	09547	0	1	
100	Decal - Hayter	398015	1	1	
100	Decal - Grass Blade	410064	1	1	
101	Decal - Height of Cut	320006	1	1	
102	Decar - Height of Cut	520000		1	



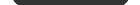


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Notes:-



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Serial No:	

Motor Type:-127F802-1382-01 (Code 398C) Engine Type Briggs & Stratton Quantum XTS 50 Motor Type:-127F802-1382-01 (Code 399C) Engine Type Briggs & Stratton Quantum XTS 50

Date of Sale:-

Your Local Dealer:-